

MousePen^{Pro}

Guide to Operations

PC and Portable Versions





MousePenProfessional Warranty Registration Card

Appoint Technical Support 805-238-9690

1. What computer(s) do you use? _____	4. How experienced are you with computers? ☐ Not Very ☐ Experienced ☐ Somewhat ☐ Very	Name
2. Please indicate which type of monitor / disk drive you use: ☐ CGA ☐ 5 1/4 ☐ EGA ☐ 3 1/2 ☐ VGA	5. How did you hear of The MousePen? ☐ Friend ☐ User Group ☐ Store Display ☐ Magazine Advertisement ☐ Magazine Article/Review	Phone ()
3. Please indicate what types of software you use: ☐ Accounting ☐ Database ☐ Spreadsheets ☐ Graphics ☐ Word Processor ☐ CAD ☐ Desktop Publishing	6. How do you rate the MousePen? 1 2 3 4 5 6 7 8 9 10	Company
		Address
		City / State / Zip
		Authorized Dealer
		City / State

What magazines do you read regularly?

Comments / Suggestions

PC	Portable	S/N	No 311983
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APOINT

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For IBM PC, PC-XT, PC-AT, PS/1, PS/2 and 100% compatible desktop,
portable, laptop and notebook computers

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INTRODUCTION

Thank you for selecting the MousePen*Professional*. We at Appoint strive to provide you with the most instinctive and comfortable pointing and drawing instruments for today's computers. After all, the more natural it is to use, the more productive you will be (and the more fun you will have.) Appoint is committed to simplifying the interface between man and machine. We will continue to provide you with new and innovative devices.

Let us know how we are doing! Your ideas are important to us. Please take the time to offer your comments on the warranty card included. Sending in your warranty card will also keep you informed of special offers and announcements from Appoint.

Special Note:

All Appoint products are designed and made in the United States of America, and we're proud of it!

INSTALLING THE MOUSEPEN PROFESSIONAL ON YOUR IBM COMPATIBLE SYSTEM

What you need to get started

- IBM PC, PC/XT, PC/AT, PS/1, PS/2 or 100% compatible
- PS/2 mouse port or standard RS232C serial port as COM1 or COM2
- PC-DOS or MS-DOS version 2.0 or above
- 256K of memory
- At least one floppy drive
- Appoint Pointing Device Software Utilities diskette
(hereafter referred to as the "Appoint software diskette")

Before You Start

The *MousepenProfessional* is Microsoft compatible. If you already have a Microsoft mouse driver installed on your system, simply turn off your computer, unplug your present mouse, connect your new MousePen to the same port, and restart (boot) the system. If this is your first pointing device, or your present mouse is not a Microsoft serial or IBM PS/2 mouse, you need to install the Appoint driver software to use the *MousePenProfessional*. For instructions on installing the driver software, please read on.

Windows users

The *MousePenProfessional* operates with the mouse driver supplied in your Microsoft Windows package. All Windows applications use this mouse driver. However, non-Windows applications (even if run from Windows) require that you install either the Appoint device driver or the Microsoft mouse driver.

Helpful Hint:

The *MousePenProfessional* has dynamic gain resolution "built in" and does not require additional software control. In Windows, we suggest you go to the "Control Panel", select "Mouse", and set the speed to the slowest setting. This lets you and your MousePen have complete control of your input resolution. (Dynamic Gain is explained further under "Resolution Control" in Section 2.)

Using the README.DOC File

The README.DOC file contains new information and corrections to this manual since it went to print. Please read this file and record any changes to this manual from the README file before proceeding.

To open the README.DOC file, use a text editor or word processor that can load ASCII files. You can also use the DOS Type command to read the file on the screen. To do this, put your backup copy of the Appoint software diskette into Drive A. Change to the directory that has your DOS program files (or a directory that has a DOS path set to it) and type;

TYPE A: README.DOC | MORE

Note: The "|" character is the double straight up and down line usually found on your keyboard above the backslash key ("\"). The DOS manual refers to this command key as "pipe". Please refer to your DOS manual if a further explanation of this character is needed.

An alternative command is;

A:MORE <README.DOC

NOTE: Enter the command text as written, including spaces. If you are using a floppy drive other than A, use that drive letter in place of "A" in the examples. To execute a command, hit the ENTER key on your keyboard after typing the command text. This applies to all command examples in this manual.

The TYPE | MORE command displays the README file one screen at a time. To see the next screen, press any key. To stop reading the file before the end, press [CTRL] and [BREAK] simultaneously. If you want to print the README file, type;

TYPE A: README.DOC > LPT1

NOTE: If your printer is connected to a different port than LPT1, use the name of that port in place of "LPT1" in the above example.

Installing The MousePenProfessional Hardware

PS/2 Mouse Port Installation

- Step 1: Turn your computer off and disconnect it from the power source.
- Step 2: Plug the mouse port connector at the end of the MousePen cable into your PS/2 or compatible mouse port. Refer to your computer's operation manual for the exact location of this port.
- Step 3: Plug your computer back in to the power source and turn it on.
- Step 4: Go to the driver software installation.

Serial Port Installation

- Step 1: Turn your computer off and disconnect it from the power source.
- Step 2: 9 pin serial port:
Connect the PS/2 to 9 pin serial adapter to the end of the MousePen cable. Plug firmly into your serial port and secure.

25 pin serial port:
Connect the PS/2 to 9 pin serial adapter to the end of the MousePen cable. Connect the 9 to 25 pin adapter. Plug firmly into your serial port and secure.

NOTE: It is usually impossible to plug the serial adapter into a non-serial port because the connectors are different.

NOTE: You may have more than one serial port on your computer. If this is the case, you can use any open port as long as it is set as COM1 or COM2. Refer to your computer manual for the exact location of the serial port(s).

- Step 3: Plug your computer back in to your power source and turn on.
- Step 4: Go to the driver software installation.

APPOINT DRIVER INSTALLATION

About the Appoint Driver

The Appoint software driver provides the same functions as the Microsoft mouse driver MOUSE.COM. Independently developed, the Appoint driver software is compatible with any application that is designed to use a Microsoft mouse. Once loaded, the Appoint driver remains in memory until you reboot your computer, issue the MOUSE /OFF command (explained later), or turn your computer off. Installed correctly, the Appoint driver will be transparent to you.

Installing the Driver Software

Appoint's installation program does the work for you. It will ask you questions about your system and will copy the files you need to your hard or floppy disk. To use the installation program;

- Step 1:** Make a backup copy of the Appoint software diskette. For information on this procedure, refer to your DOS manual under the heading "DISKCOPY Command".
- Step 2:** Put the backup copy of Appoint software diskette into floppy drive A;
- Step 3:** At the DOS prompt enter the following command;

A:INSTALL

NOTE: Substitute the correct drive letter if you are using a floppy drive that is designated as something other than "A".

Answer any questions and follow the instructions on the screen.

Installing Application Programs For Use With The MousePen

Since the *MousePenProfessional* is Microsoft compatible, you can use it with any software that uses the Microsoft Mouse. When you run the installation or setup programs for your software, you will be asked what type of input device you are using. If the MousePen is not on the list, select the Microsoft Serial Mouse if you are using your MousePen through a serial port, or the IBM PS/2 mouse if you are using your MousePen through the PS/2 mouse port.

Microsoft Windows, PageMaker, CORELDraw! and other Windows applications.

The *MousePenProfessional* has been tested with Windows, Windows 286, Windows 386 and Windows 3.0. Microsoft Windows does not require that you load the Appoint driver before running Windows applications. On the setup program for Windows select the Microsoft serial or IBM PS/2 mouse option as appropriate.

NOTE: If a Microsoft BUS card is in your system the Appoint input device will not be recognized. You must remove the BUS card before using an Appoint input device.

The *MousePenProfessional* does not require resolution control by software applications. Remember to select "NONE" (or the slowest speed setting) in the Windows CONTROL PANEL under "Mouse Preferences". This turns off the software acceleration control. In Windows 3, select the slowest setting or "off" position.

GEM/3 and Ventura Publisher

When you run the GEMPREP installation program, if the MousePen is not on the list, just select the Microsoft Serial Mouse if you are using you are using your MousePen through a serial port, or the IBM PS/2 mouse if you are using your MousePen through the PS/2 mouse port.

Installing Application Programs on the VME Workstation

Since the VME Workstation is a Microsoft Windows 3.11-based system, you can install applications on it in the same way as you would on a Windows 3.11-based system. However, there are a few things to keep in mind when installing applications on the VME Workstation. First, you must have a hard disk installed in the VME Workstation. Second, you must have a minimum of 10 MB of free space on the hard disk. Third, you must have a minimum of 1 MB of free space in the root directory of the hard disk. Fourth, you must have a minimum of 1 MB of free space in the root directory of the hard disk. Finally, you must have a minimum of 1 MB of free space in the root directory of the hard disk.

The Microsoft Windows 3.11-based VME Workstation does not require that you install applications on the hard disk. However, if you do, you must have a minimum of 10 MB of free space on the hard disk. If you do not have a hard disk installed in the VME Workstation, you must have a minimum of 10 MB of free space in the root directory of the hard disk.

When you install an application on the VME Workstation, you must have a minimum of 10 MB of free space on the hard disk. If you do not have a hard disk installed in the VME Workstation, you must have a minimum of 10 MB of free space in the root directory of the hard disk.

When you install an application on the VME Workstation, you must have a minimum of 10 MB of free space on the hard disk. If you do not have a hard disk installed in the VME Workstation, you must have a minimum of 10 MB of free space in the root directory of the hard disk.

APPENDIX

When you install an application on the VME Workstation, you must have a minimum of 10 MB of free space on the hard disk. If you do not have a hard disk installed in the VME Workstation, you must have a minimum of 10 MB of free space in the root directory of the hard disk.

When you install an application on the VME Workstation, you must have a minimum of 10 MB of free space on the hard disk. If you do not have a hard disk installed in the VME Workstation, you must have a minimum of 10 MB of free space in the root directory of the hard disk.

SPECIAL FEATURES :

Using The MousePenProfessional

The MousePenProfessional is unlike any conventional desk mouse you've ever used. Designed to be held and used in a similiar fashion as a ball point pen, the MousePenProfessional also operates on any soft surface that a ball point pen will. You don't need special pads or grids, and you don't need a clean and clear desk to use the MousePen. It operates on a simple pad of paper, magazine, file folder, or even fabric. So rather than clearing a space on top of your desk to use the MousePen, you can use it on top of your "stuff". Go ahead, get comfortable, and use it on your pant leg if you like. Many MousePen users report this as their favorite work surface, and we have to admit, it's quite comfortable.

For those of you who prefer to use a mouse pad, we suggest the soft fabric type over slick, plastic coated ones. But once you try the "pant leg" approach, we think you'll convert too. For MousePenProfessional - Portable users "on the go", this is an especially nice feature.

BUTTON OPERATION

There are two buttons on your MousePenProfessional.. The lower button is the "POINT" button and is used for selecting items. This button relates to the left (or main) button on a Microsoft mouse. The second MousePen button, located above the POINT button, is the ALTERNATE button and relates to the right button on a Microsoft mouse. Use of the ALTERNATE button is determined by your application software.

Your MousePen is designed so you can rest your arm on your work surface and operate the MousePen with simple, comfortable movements. Note the recessed area under the MousePenProfessional.. This area lets you rest the MousePen over your middle or ring finger. While holding the MousePen, your index (or pointing) finger should be relaxed over the POINT button. Simply press to activate this button. Bend your knuckle slightly to click the ALTERNATE button. If your application software uses a "two button click", straightening your index finger allows you easily press both buttons simultaneously.

"DOUBLE CLICKING"

A common problem for conventional desk mice is "mouse jitter". This means the cursor moves or "jumps" away from the selected object when you press a button. Many software programs use multiple click operations which makes mouse jitter even more of a problem. The *MousePenProfessional* is designed to easily eliminate this. Once you have homed in on the point to select, you may lift the pen and click. Lifting The MousePen off the surface "locks" the cursor on the selected spot allowing easy multiple clicking without moving the cursor in the process. You can also lift the pen and hold it between your fingers while typing., useful for performing keyboard operations or commands without placing the MousePen down.

RESOLUTION CONTROL

Cursor Movement and Dynamic Gain

The *MousePenProfessional* has two resolution modes, dynamic gain and linear. Some input devices use a ballistic tracking system in the software driver. With dynamic gain "built in" to your MousePen, it is always an available feature regardless of what software driver you are using (Appoint driver, Microsoft mouse or Windows driver, Menu Maker, etc.)

The *MousePenProfessional* uses dynamic gain to vary the tracking response in relationship to both the speed and direction of your movements. The range of dynamic gain is 100 to 1000 CPI (Counts Per Inch). As you move the MousePen slowly in any direction, the cursor will also move slowly in the same relative direction, (left, right, up, down, etc). If you move quickly in the same space, the cursor will speed up also. With dynamic gain, you can automatically control cursor movement across the screen for menu selection, or with point-by-point precision for detail work without "rowing". An automatic filtering system assists you with straight line drawing control.

Cursor Movement and Linear Resolution

Your *MousepenProfessional* also has a linear resolution mode. Linear mode has a constant, steady response of 150 CPI (Counts Per Inch) regardless of the speed of your movements. You may find the linear mode more useful for drawing finely curved lines, lettering or outlining.

Using the External Resolution Switch

The MousePen*Professional*'s external resolution switch instantly changes your MousePen's response from dynamic gain to linear mode. Switch again, and you're back in dynamic mode. Refer to the illustration (*figure 1a*) below for the switch positions.

Your own drawing technique will determine which resolution mode is most comfortable for you. But with Appoint's external resolution switch, you can select your preference "on the fly" for custom control in any application.

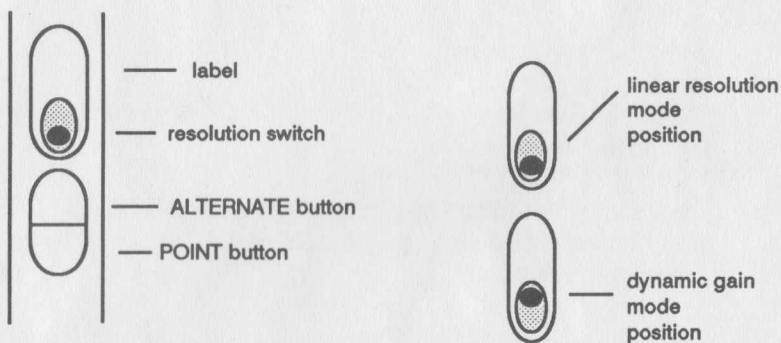


Figure 1a

Switch position for resolution mode selection

CARE AND MAINTENANCE

The ball of your MousePenProfessional can pick up small particles of lint and dust. The MousePenProfessional will not be damaged by these particles, but they may cause the MousePenProfessional to stop working properly. To clean the MousePenProfessional, use a soft cloth to wipe the ball. Do not use any liquid cleaners or solvents.

QUICK CLEANING

The MousePenProfessional will work properly without any cleaning. However, if you notice that the MousePenProfessional is not working properly, you may want to clean it. To clean the MousePenProfessional, use a soft cloth to wipe the ball. Do not use any liquid cleaners or solvents. You can also use a soft cloth to wipe the MousePenProfessional's body. Do not use any liquid cleaners or solvents. The MousePenProfessional is designed to be used in a clean environment. If you are using the MousePenProfessional in a dirty environment, you may want to clean it more often.

Appendices

THOROUGH CLEANING

- Step 1: Turn the MousePenProfessional off.
- Step 2: Turn the MousePenProfessional over and remove the plastic cover that holds the ball in place.
- Step 3: Open the cover by pulling the small tab (see Figure 2). With your thumb or finger, gently slide the cover away from the MousePenProfessional.
- Step 4: Carefully turn the MousePenProfessional over and place it on the opening to catch the ball as it falls out of the MousePenProfessional.
- Step 5: Use a soft cloth to wipe the ball. Do not use any liquid cleaners or solvents. The ball may be washed in a mild detergent solution.
- Step 6: Turn the MousePenProfessional back to its normal position. Do not use the MousePenProfessional until the ball is completely dry.

CARE AND MAINTENANCE

The ball of your *MousePenProfessional* can pick up small particles of surface dust and lint. Cleaning will make the *MousePen*'s movement smoother and more accurate. Occasional cleaning is necessary to avoid sticking or slipping in any way due to dirt particles. But with the *MousePenProfessional*, it's easy!

QUICK CLEANING

The *MousePen* mechanism will transfer most particles away from itself using this simple procedure. Press your *MousePenProfessional* down on a clean piece of paper and move it in a circular motion for a few seconds. This will clean surface dirt from the ball which can be seen as residue on the paper. You can do this procedure as many times as you wish without fear of damaging your *MousePenProfessional*. With regular quick cleaning, you may never need to do more. But for the occasional "Oops!" incidents, read on.

THOROUGH CLEANING

- Step 1: Turn your computer off.
- Step 2: Turn the *MousePenProfessional* over and locate the plastic cover that holds The *MousePen* ball in place.
- Step 3: Open the cover by locating the small tab. (*refer to Figure 2a.*) With your thumb or finger, gently slide the cover away from the *MousePenProfessional*.
- Step 4: Carefully turn the *MousePen* over, placing your hand over the opening to catch the ball as it falls free of the *MousePen* body.
- Step 5: Use a moist cotton swab (water only) to remove any dirt or lint from the rollers. The ball may be washed in a mild detergent solution.
- Step 6: Put the *MousePenProfessional's* ball back in its socket. Insert lip of the slide cover under the stationary section of the *MousePen* housing. (*refer to figure 2b.*) Slide the cover closed.

Figure 2a

Bottom view of MousePen with ball door removed

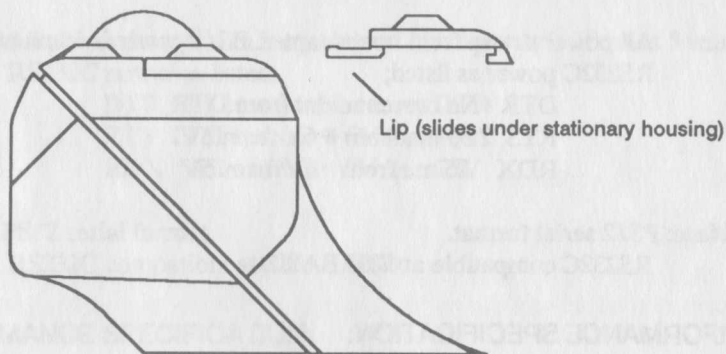
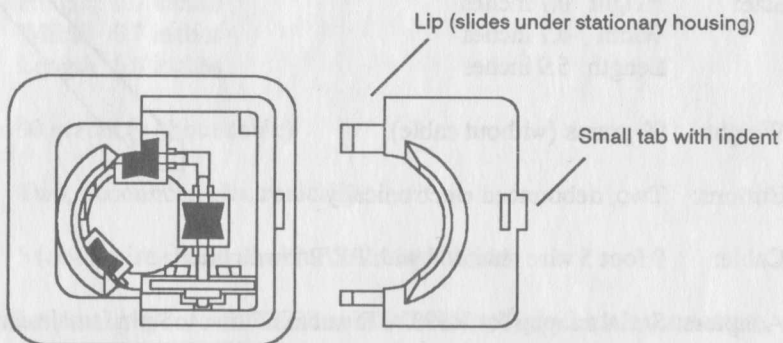


Figure 2b

Side view of MousePen mechanism with ball door removed.

The MousePenProfessional - PC Specifications

PHYSICAL SPECIFICATIONS:

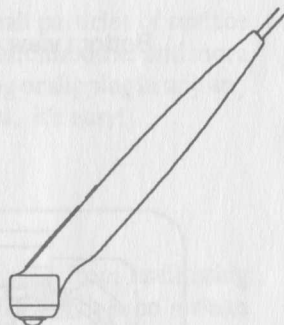
Size: Height 0.7 inches
 Width 0.7 inches
 Length 5.9 inches

Weight: 90 grams (without cable)

Buttons: Two, debounced electronically

Cable: 9 foot 5 wire shielded with PS/2 termination

Adapters: Serial adapter for RS232C D-subminiature to 9 pin female connector
 D-subminiature 9 to 25 pin female connector



ELECTRICAL SPECIFICATIONS:

Power: All power drawn from host adapter. PS/2 power is 10ma at 5 volts.
 RS232C power as listed;
 DTR *No current draw from DTR
 RTS 2.50 ma from +6V to +15V
 RDX .25 ma from -6V to -15V

Interface: PS/2 serial format.
 RS232C compatible at 1200 BAUD

PERFORMANCE SPECIFICATION:

Resolution: 50 to 1,000 pulses per inch
Tracking Speed: 18 inches per second

OPERATIONAL SPECIFICATIONS:

Reporting Modes: Selected by software and hardware.
 Instrumental, stream, prompt

Data Format: Microsoft 3 BYTE compatible mode
 IBM PS/2 mouse serial data format

The MousePenProfessional - Portable Specifications

PHYSICAL SPECIFICATIONS:

Size: Height 0.7 inches
 Width 0.7 inches
 Length 5.9 inches

Weight: 90 grams (without cable)

Buttons: Two, debounced electronically

Cable: 5 foot 5 wire shielded with PS/2 termination

Adapters: Serial adapter for RS232C D-subminiature to 9 pin female connector
 D-subminiature 9 to 25 pin female connector

ELECTRICAL SPECIFICATIONS:

Power: All power drawn from host adapter. PS/2 power is 10ma at 5 volts.
 RS232C power as listed;
 DTR *No current draw from DTR
 RTS 1.75 ma from +6V to +15V
 RDX .25 ma from -6V to -15V

Interface: PS/2 serial format.
 RS232C compatible at 1200 BAUD

PERFORMANCE SPECIFICATION:

Resolution: 50 to 1,000 pulses per inch
Tracking Speed: 18 inches per second

OPERATIONAL SPECIFICATIONS:

Reporting Modes: Selected by software and hardware.
 Instrumental, stream, prompt

Data Format: Microsoft 3 BYTE compatible mode
 IBM PS/2 mouse serial data format

FCC WARNING

NOTE: This equipment has been tested and found to comply with the limits for Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference in radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures;

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

NOTE: User must use shielded interference cables in order to maintain product within FCC compliance.

INFORMATION TO USER:

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC ID: IDHMPEN100-1

Patent Applied For

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES.

Operation is subject to the following two conditions (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

The MousePen Model 100

MADE IN USA

International Machine Control Systems, Inc.

Technical Support Assistance

Appoint designs products for real users in real world environments. We invite your comments and suggestions. We want to hear from you!

Your MousePen's serial number is stamped on the warranty registration card inside the front cover of this manual. Please fill out the warranty card, tear it out of the manual and send it to us with your comments. For your convenience, we left a place for your comments on the card (we read them all) or you may phone our technical support department at 805-238-9690 between the hours of 8:00 am and 5:00 pm PST (Pacific Standard Time) or FAX us at 805-239-8978.

Please use the space below to record your serial number, purchase date and dealer for your files.

MousePen*Professional*: *PC* version *Portable* version

Serial Number: _____

Purchase date: _____

Purchased from: _____

APPOINT

1332 Vendels Circle
Paso Robles, Ca. 93446
USA

Sales	800-448-1184
General	805-239-8976
Tech Support	805-238-9690
FAX	805-239-8978

Technical Support Information

Information on the various types of equipment and materials used in the construction of a building is provided in this section. The information is presented in a tabular format, with the equipment and materials listed in the first column and the technical specifications listed in the second column. The information is presented in a tabular format, with the equipment and materials listed in the first column and the technical specifications listed in the second column.

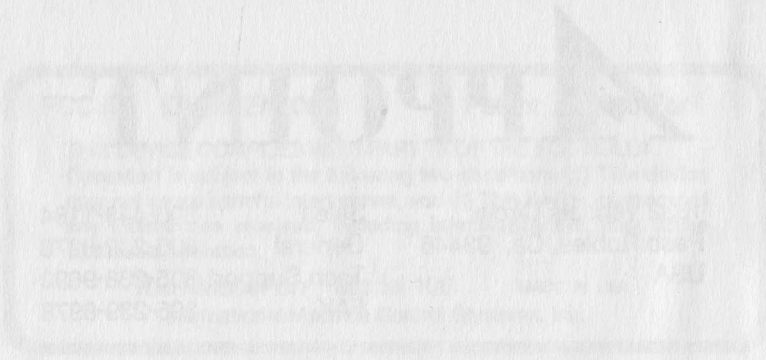
Based on the above data, it is recommended that the following equipment and materials be used in the construction of a building:

Equipment and materials used in the construction of a building are listed in the following table. The table is organized into two columns: Equipment and Materials. The first column lists the equipment and materials used in the construction of a building, and the second column lists the technical specifications for each item.

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APPOINT PRODUCT WARRANTY INFORMATION

Appoint warrants the MousePen against defects in material or workmanship as follows:

Appoint will repair or replace the unit at no charge for a period of 1 year from the date of purchase. The decision to repair or replace will be of the sole discretion of Appoint. Units should be sent prepaid to Appoint with a valid RMA (Return Merchandise Authorization) number clearly marked on the outside of the package. An RMA number can be obtained by contacting Appoint technical support via phone, FAX or mail in advance of returning the unit. Appoint technical support hours are 8:00 am to 5:00 pm PST (Pacific Standard Time). Phone 805-238-9690 or FAX 805-239-8978. Appoint will return prepaid the repaired or replacement unit.

After a period of one year from the date of purchase, Appoint will repair or replace the unit at a nominal fee not to exceed \$25.00. Should the model covered by this warranty no longer be available, Appoint will, at its option, upgrade to the current model at no additional cost.

- This warranty is valid only in the United States. (For International customers, please refer to the specific warranty for your country)
- You must retain the dated bill of sale as evidence of the date of purchase.

Repair or replacement as provided under this warranty is the exclusive remedy of the purchaser. Appoint shall not be liable for any incidental or consequential damages for breach of any express or implied warranty on this product. Except to the extent prohibited by applicable law, any implied warranty of merchantability or fitness for a particular purpose on this product is limited to the duration of this warranty.



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Tech Support	805-238-9690
FAX	805-239-8978

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